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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/788,878	02/27/2004	Daniel Fiat	7628-91548	7128	
7590 07/29/2005		EXAMINER			
Jon P. Christensen			VARGAS, DIXOMARA		
Welsh & Katz,	Ltd.				
22nd Floor			ART UNIT	PAPER NUMBER	
120 South Riverside Plaza			2859		
Chicago, IL 6	0606		DATE MAILED: 07/29/2005	DATE MAILED: 07/29/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	<del></del>	Application No.	Applicant(s)		
Office Action Summary		10/788,878	FIAT, DANIEL		
		Examiner	Art Unit		
-		Dixomara Vargas	2859		
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1)⊠ F	Responsive to communication(s) filed on 31 M	ay 2005.			
		action is non-final.			
	,				
Dispositio	n of Claims				
4) ☐ Claim(s) 38-48 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.  5) ☐ Claim(s) is/are allowed.  6) ☐ Claim(s) 38-48 is/are rejected.  7) ☐ Claim(s) is/are objected to.  8) ☐ Claim(s) are subject to restriction and/or election requirement.					
Application	n Papers				
9) The specification is objected to by the Examiner.					
<ul> <li>10) ☐ The drawing(s) filed on 27 February 2004 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.         Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).         Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).</li> <li>11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.</li> </ul>					
	•		7.63.677.67.767.77.7.7		
Priority under 35 U.S.C. § 119  12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some col None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No.  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s		<b></b>			
2) Notice of 3) Informa	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) tion Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Io(s)/Mail Date	4) L Interview Summary ( Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:	(PTO-413) te atent Application (PTO-152)		

### **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 38-48 are rejected under 35 U.S.C. 102(b) as being anticipated by Keren (US 5,160891 A).

With respect to claims 38, 39-43, Keren discloses a method of multinuclear magnetic resonance spectroscopy and imaging comprising the steps of: generating an exciter signal (Column 1, lines 41-44); synthesizing a plurality of synthesized signals appropriate to the atomic species to be studied (Figure 1, #41); mixing the exciter signal with the plurality of synthesized signals, creating a plurality of generated signal (Figure 1, #36); exciting a plurality of atoms having different atomic weights with the generated signals (Columns 1 and 3, lines 41-44 and 40-50); receiving a plurality of experimental signals from atoms excited by the generated signals (Figure 1, #12-#16).

- 3. With respect to claims 44-47, Keren discloses the step of digitizing the final signals (Figure 1, #42-#46).
- 4. With respect to claim 48, Keren discloses the means for digitizing each of the signals further comprise separate devices (Figure 1, #42-#46).

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### Response to Arguments

- 5. Applicant's arguments filed 05/31/05 have been fully considered but they are not persuasive.
- 6. Applicant argues that Keren fails to teach or fairly suggest exciting a plurality of atoms having different atomic weights.
- 7. The examiner disagrees with applicant's argument since Keren discloses performing MR studies with two different frequencies wherein it is known that atoms in an element have its own Larmor frequency for every element to resonate wherein every element has atoms with specific atomic weight and therefore, Keren discloses atoms of different atomic weights being excited with their respective Larmor frequency.

### Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

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however, will the statutory period for reply expire later than SIX MONTHS from the date of this

final action.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Dixomara Vargas whose telephone number is (571) 272-2252.

The examiner can normally be reached on Monday to Thursday from 8:00 am. to 4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Diego Gutierrez can be reached on (571) 272-2245. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Dixomara Vargas

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July 28, 2005

Diego Gutierrez

Supervisory Patent Examiner

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